(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



) | 1816-1810 | 1916-191 | 188 | 188 | 189 | 189 | 189 | 189 | 189 | 189 | 189 | 189 | 189 | 189 | 189 | 189 |

(43) International Publication Date 13 January 2005 (13.01.2005)

PCT

(10) International Publication Number WO 2005/002350 A1

(51) International Patent Classification7: 9/137, 19/00, 20/00, 23/00, A23J 3/08

A23C 21/06,

(21) International Application Number:

PCT/NZ2004/000142

(22) International Filing Date:

5 July 2004 (05.07.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 526878

4 July 2003 (04.07.2003) NZ

(71) Applicant (for all designated States except US): FONTERRA CO-OPERATIVE GROUP LIMITED [NZ/NZ]; The Fonterra Centre, 9 Princes Street, Auckland (NZ).

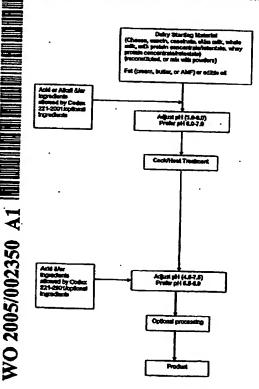
(72) Inventors; and

(75) Inventors/Applicants (for US only): LEE, Siew, Kim, [SG/NZ]; Fonterra Research Centre, Dairy Farm Road, Palmerston North (NZ). ANEMA, Skelte, Gerald, [NZ/NZ]; Fonterra Research Centre, Dairy Farm Road, Palmerston North (NZ).

- (74) Agents: GRIFFITHS, Teresa, V et al.; A J Park, 6th Floor Huddart Parker Building, Post Office Square, P O Box 949, Wellington, 6015 (NZ).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG; KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH,

[Continued on next page]

(54) Title: A METHOD FOR MODIFYING THE TEXTURE OF A DAIRY PRODUCT



(57) Abstract: The invention provides a process for preparing cheese, a cheese-like product, a yoghurt or a dairy dessert without removing whey. It comprises providing a dairy starting material comprising casein and a quantity of undenatured (native) whey protein; adjusting the pH, if required, to a preselected point in the range 5.0-8.0; subjecting the material with the desired pH to a heating step; adjusting the pH of the heated intermediate product to 4.5-7.5 and processing and/or packaging the pH 4.5-7.5 product to form the final product. The process involves the manipulation of the texture of a dairy gel.